CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 22.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	22.03.2022	8.166	711.2	31.61
2	22.02.2022	22.03.2022	8.174	713.9	31.73
3	22.02.2022	22.03.2022	8.179	721.4	32.06

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 01.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	01.03.2022	8.132	495.7	22.03
2	22.02.2022	01.03.2022	8.139	500.4	22.24
3	22.02.2022	01.03.2022	8.145	503.7	22.39

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Date: 22.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	22.03.2022	8.158	705.7	31.36
2	22.02.2022	22.03.2022	8.163	711.9	31.64
3	22.02.2022	22.03.2022	8.169	713.5	31.71

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Date: 01.03.2022

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Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	01.03.2022	8.119	489.9	21.77
2	22.02.2022	01.03.2022	8.123	496.3	22.06
3	22.02.2022	01.03.2022	8.135	504.3	22.41

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	22.03.2022	8.167	700.1	31.12
2	22.02.2022	22.03.2022	8.174	707.3	31.44
3	22.02.2022	22.03.2022	8.188	704.5	31.31

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ಬೆಂಗಳೂರು-560073.

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Name of the work	: Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	01.03.2022	8.129	498.7	22.16
2	22.02.2022	01.03.2022	8.136	503.4	22.37
3	22.02.2022	01.03.2022	8.155	506.8	22.52

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Sample ID : Cement Concrete

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	22.03.2022	8.149	704.5	31.31
2	22.02.2022	22.03.2022	8.158	711.1	31.60
3	22.02.2022	22.03.2022	8.172	713.8	31.72

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	01.03.2022	8.153	501.9	22.31
2	22.02.2022	01.03.2022	8.159	505.6	22.47
3	22.02.2022	01.03.2022	8.164	509.3	22.64

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.02.2022	22.03.2022	8.163	710.8	31.59
2	22.02.2022	22.03.2022	8.173	713.4	31.71
3	22.02.2022	22.03.2022	8.189	719.4	31.97

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 10.02.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work :Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 10.02.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	181	181	1.8	98.2	95-100
22.4	2498	2679	26.8	73.2	60-80
11.2	2197	4876	48.8	51.2	40-60
4.75	1841	6717	67.2	32.8	25-40
2.36	1181	7898	79.0	21.0	15-30
0.600	642	8540	85.4	14.6	8-22
0.075	1241	9781	97.8	2.2	0-5

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Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	177	177	1.8	98.2	95-100
22.4	2478	2655	26.6	73.5	60-80
11.2	2119	4774	47.7	52.3	40-60
4.75	1883	6657	66.6	33.4	25-40
2.36	1166	7823	78.2	21.8	15-30
0.600	598	8421	84.2	15.8	8-22
0.075	1211	9632	96.3	3.7	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 10.02.2022

GRADATION FOR WMM

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Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	192	192	1.9	98.1	95-100
22.4	2411	2603	26.0	74.0	60-80
11.2	2055	4658	46.6	53.4	40-60
4.75	1945	6603	66.0	34.0	25-40
2.36	1255	7858	78.6	21.4	15-30
0.600	642	8500	85.0	15.0	8-22
0.075	1195	9695	97.0	3.1	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 16.02.2022

GRADATION FOR WMM

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Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work :Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 16.02.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	170	170	1.7	98.3	95-100
22.4	2415	2585	25.9	74.2	60-80
11.2	2184	4769	47.7	52.3	40-60
4.75	1949	6718	67.2	32.8	25-40
2.36	1203	7921	79.2	20.8	15-30
0.600	601	8522	85.2	14.8	8-22
0.075	1105	9627	96.3	3.7	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 16.02.2022

GRADATION FOR WMM

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Name of Work :Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 16.02.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	198	198	2.0	98.0	95-100
22.4	2497	2695	27.0	73.1	60-80
11.2	2227	4922	49.2	50.8	40-60
4.75	1948	6870	68.7	31.3	25-40
2.36	1245	8115	81.2	18.9	15-30
0.600	605	8720	87.2	12.8	8-22
0.075	1036	9756	97.6	2.4	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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CIVIL AIM CONSULTANTS & ENGINEERS

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An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 16.02.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work :Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 16.02.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	175	175	1.8	98.3	95-100
22.4	2487	2662	26.6	73.4	60-80
11.2	2136	4798	48.0	52.0	40-60
4.75	1923	6721	67.2	32.8	25-40
2.36	1192	7913	79.1	20.9	15-30
0.600	596	8509	85.1	14.9	8-22
0.075	1139	9648	96.5	3.5	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 10.02.2022

Aggregate Impact Value

Client	Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Agency	M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.
Name of the Work	Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	10.02.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	377	379	
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	82	81.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	297.5	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	21.75	21.50	21.63

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 10.02.2022

Aggregate Impact Value

Client	Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Agency	M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.
Name of the Work	Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	10.02.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	83.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	298.5	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.14	21.86	22.00

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Aggregate Impact Value

Client	**Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the Work	Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	16.02.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	301	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.54	22.62	22.58

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 10.02.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of Work	Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.02.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.60	12.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.20	13.40	
	Combined Flakiness & Elongation index	25.80	26.30	

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 10.02.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
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Name of Work	Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.02.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	13.10	13.30	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.60	12.90	
	Combined Flakiness & Elongation index	25.70	26.20	

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Name of Work	Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	16.02.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.80	11.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.90	12.70	
	Combined Flakiness & Elongation index	24.70	24.20	

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ATTERBERG LIMITS TEST FOR WMM

Client :Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.

Agency : M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.

Name of Work : Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 08.02.2022 to 10.02.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 10.02.2022

ATTERBERG LIMITS TEST FOR WMM

Client :Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.

Agency : M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.

Name of Work : Improvements of roads and drains in Vijaya Bharathi School Surroundings and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 08.02.2022 to 10.02.2022

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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